

L 25967-66 EWT(m)/ETC(f)/EPF(n)-2/ENG(m) WW

ACC NR: AP5026439

SOURCE CODE: UR/0089/65/019/004/0346/034948
47
BAUTHOR: Sergeyev, I. V.

ORG: None

TITLE: Use of the P_n -approximation for describing the distribution of neutrons in an absorbing rod
19SOURCE: Atomnaya energiya, v. 19, no. 4, 1965, 346-349
19TOPIC TAGS: nuclear reactor technology, ~~nuclear physics~~, neutron distribution, approximation method, approximation calculation, neutron absorption, particle collision, computer calculationABSTRACT: Most mathematical approaches to analyzing the dependency of absorption effectiveness upon the burn-out rate of absorbing materials were usually based on artificial assumptions and simplifications. In order to improve such approaches, an attempt is made in this paper to develop a consistent method of calculation by applying a P_n -approximation to the basic Boltzmann one-velocity equation. The process of calculation expounded by the author was applied only to plane surfaces although the same procedure can also be applied to cylindrical and spherical configurations. The method of calculation described in this paper is based on the initial equation system defining the neutron density N and formulating the burn-out conditions, as follows:

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UDC: 621.039.51.154

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$$\left. \begin{aligned} \frac{1}{v} \cdot \frac{\partial N}{\partial t} &= -\mu \frac{\partial N}{\partial x} - (\Sigma_c + \Sigma_s) N + \\ &+ \frac{\Sigma_s}{2} \int_{-1}^1 g(\mu', \mu) N(x, t, \mu') d\mu'; \\ \frac{1}{v} \cdot \frac{\partial \Sigma_c}{\partial t} &= -\sigma_c \Sigma_c \frac{1}{2} \int_{-1}^1 N(x, t, \mu') d\mu'. \end{aligned} \right\} \quad (1)$$

Here, v -neutron velocity; $\mu = \cos \theta$ (θ -angle between the velocity direction and x -axis); $g(\mu', \mu)$ -collision probability in changing the direction by angles (θ, θ') . It was assumed that the capture cross-section σ_c does not depend upon the time. Then, by using Legendre polynomials, a new system of $(n + 2)$ non-linear differential equations of the first order was derived and presented as:

$$\left. \begin{aligned} \frac{1}{v} \cdot \frac{\partial f_k}{\partial t} &= -\frac{k}{2k+1} \cdot \frac{\partial f_{k-1}}{\partial x} - \\ &- \frac{k+1}{2k+3} \cdot \frac{\partial f_{k+1}}{\partial x} - \\ &- \Sigma_c f_k - \Sigma_s f_k (1 - c_k) \\ (k &= 0, 1, 2, \dots, n; f_0 = 0) \\ \text{at } v &\neq 0 \quad k > n+1; \\ \frac{1}{v} \cdot \frac{\partial \Sigma_c}{\partial t} &= -\sigma_c \Sigma_c f_0. \end{aligned} \right\} \quad (2)$$

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After applying the vector-matrix analysis to further transformations of the above equation, the author obtained an expression which was identical to a differential equation of the following form:

$$\frac{\partial v_i(x, s)}{\partial s} = \lambda_i \frac{\partial v_i(x, s)}{\partial x} + \psi_i(v_i, x, s). \quad (3)$$

Integrating this latter differential equation, the final form for calculation was derived. This final equation was expressed as:

$$v_i(s', x') = v_i(0, x' + \lambda_i s') + \\ + \int_0^{s'} \psi_i [s, x' - \lambda_i (s - s')] ds; \\ i = 1, 2, \dots, n+2. \quad (4)$$

The practical solution of the final equation depends upon the selection of initial and boundary conditions. The initial points can easily be defined because at the beginning the absorbing material is evenly distributed. The boundary limits for even and odd harmonics can be determined by usual methods although an allowance should be made for changes occur-

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ACC NR: AP5026439

ing in the neutron flux. A correction factor is given for this purpose, being expressed as:

$$\frac{\Phi_0(z)}{1 - \sigma_c^f \Phi_0(z)}, \quad (5)$$

where $\Phi_0(x)$ represents the initial distribution of neutron flux in reactor and σ_c^f denotes the capture cross-section in fuel. An illustration of the use of the final equation and application of successive approximations is given. It is also stressed that this equation is more convenient for calculation and computer programming than the initial ones. The author thanks Academician A. K. Krasin of the BSSR Academy of Sciences for the interest shown to this work. Orig. art. has: 14 formulas.

SUB CODE: 19,20,11 / SUBM DATE: 9Nov64 / ORIG REF: 004 / OTH REF: 000

Card 4/4 FW

KRISTAL', R.; STAROVEROV, M., master; SERGEYEV, K.

Planning problems and the analysis of labor productivity and wages.
Muk.-elev. prom. 29 no.3:13-14 Mr '63. (MIRA 16:9)

1. Zamestitel' nachal'nika Mordovskogo respublikanskogo upravleniya khleboproduktov (for Kristal'). 2. Cherepanovskiy mel'nichnyy kombinat Novosibirskoy oblasti (for Staroverov). 3. Nachal'nik Normativno-issledovatel'skoy laboratorii po trudu Gor'kovskogo upravleniya Khleboproduktov (for Sergeyev).

SERGEYEV, I.V., kand. tekhn. nauk; PETROSYAN, A.E.; kand. tekhn.
USTINOV, N.I., inzh.; LYAMIN, V.I., red.

[Gas control with the use of new equipment; report at the
All-Union Seminar on Exchange of Experience in the Field of
Safety Measures at Enterprises of the Coal Industry] Voprosy
bor'by s gazom pri primenenii novoi tekhniki; doklad na Vse-
soiuznom seminare po obmenu opytom v oblasti tekhniki bez-
opasnosti na predpriatiiakh ugol'noi promyshlennosti. Mo-
skva, Inst gornogo dela, 1964. 18 p. (MGA 18:9)

L 19736-5 EWT(m)/WPF(c)/EPF(n)-2/EPR Pr-4/Ps-4/Fu-4 AEDC(b)/SSD/
BSD/AFW, JXT(CZ)

SESSION NR. AP5002033

S/0170/64/000/012/0106/0111

AUTHOR: Sergeyev, I. V.

TITLE: Application of variational methods to problems of nonuniform
burnup ^B

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 12, 1964, 106-111

TOPIC TAGS: variational method, nuclear fuel, reactor fuel burnup,
reactor core, nuclear reactor 19

ABSTRACT: An attempt is made to employ the variational methods of
Babolov-Galerkin, Ritz, and Kantorovich for calculating the effects of
nonuniform burnup of nuclear fuel and poison buildup during reac-
tor core life, and thus to avoid the use of complex computation tech-
niques. A single-group (extendable to multigroup) diffusion approxi-
mation is examined. An equation is derived for determining core life of both
reflected and bare reactors. A method to determine fuel and poison con-
centrations is also presented. The use of the methods discussed is
illustrated by numerical examples. Orig. art. has: 9 formulas.

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L 19736-65
ACCESSION NR: AP5002033

ASSOCIATION: Nauchno-issledovatel'skiy institut im. A. N. Krylova
(Scientific Research Institute)

SUBMITTED: 25Sep63 ENCL: 00 SUB CODE: NP
NO REF SOV: 005 OTHER: 001 ATD PRESS: 3161

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L 57874-65 EWT(d)/FS3-2/ESC-4/EEC(t) Pn-4/Pp-4/Pac-4
ACCESSION NR: AP5016723

UR/0286/65/000/010/0041/0041
621.315.052.7

AUTHOR: Berkman, N. A.; Gontar', V. M.; Gurov, V. S.; Darova, P. I.; Yetrukhin, G.
N. N.; Zolotarev, Ya. M.; Zrazhevskiy, S. P.; Kopp, V. M.; Pasechnik, N. D.;
Ponomarenko, V. A.; Pugach, A. B.; Raykin, P. B.; Sergeyev, I. V.

TITLE: System for measuring the duration and number of interruptions in a communication channel. Class 21, No. 171023

SOURCE: Byulleten' izobryeteniy i tovarnykh znakov, no. 10, 1965, 41

TOPIC TAGS: noise measurement, frequency meter, communication channel, pulse meter

ABSTRACT: The proposed measuring device converts the spectrum of the investigated pilot (measuring) frequency to a region of higher frequencies and uses a filter to separate the side band containing information on the signal envelope. Provision is made for simultaneous analysis of pulse noise and decline in the level of the pilot frequency with respect to voltage and duration. Information on interruption time is transmitted in the form of quantized pulse packets to a measuring circuit consisting of flip-flops, AND gates, and registers. Orig. art. has: 1 figure. [DW]

Card 1/2

L 57874-65
ACCESSION NR: AP5016723

ASSOCIATION: Kiyevskoye otdeleniye Tsentral'nogo nauchno-issledovatel'skogo
instituta svyazi Ministerstva svyazi SSSR (Kiev Department of the Central Scientific
Research Institute of Communications of the Ministry of Communications, SSSR)

SUBMITTED: 10Nov63

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4038

Card 2/2

L 4116-66 EWT(m)/EPF(c)/ETC/EPF(n)-2/ENG(m) WW

ACCESSION NR: AP5022942

UR/0201/65/000/002/0029/0032

AUTHOR: Sergeyev, I. V.

TITLE: Nonuniform burn-up in a reflector reactor *19*

SOURCE: AN BSSR. Vestsi. Seryya fizika-tehnichnykh navuk, no. 2, 1965, 29-32

TOPIC TAGS: reactor fuel processing, nuclear reactor technology, fuel consumption, approximation calculation

ABSTRACT: In an earlier paper (IFZh, no. 12, 1964) the author used the variational approach to investigate the influence of the nonuniform burn-up of the fuel and of the poison accumulation on the length of run t_k of nuclear reactors without reflectors. The variational method remains applicable to the case of reflector reactors discussed in the present paper; however, the formulation of the problem and the intermediate calculations require modifications. Since the active zone and the reflector should be considered as a single system in the eigenvalue calculations, in the single group diffusion approximation the stationary diffusion equation cannot be used as the starting point. The present study is based on the nonstationary diffusion equation containing sources. Basic expressions for the calculation of t_k are given in the single group and multigroup approximation. Formulas are also given for various partial capture cross sections. "The author thanks

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B

L 4146-66

ACCESSION NR: AP5022942

Academician AN BSSR A. K. Krasin for his help and interest in the investigation. He thanks also all comrades participating in discussions." Orig. art. has: 15 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 004

OTHER: 000

Card

2/2

REF ID: A6432/66/CCW/004/0002/0032
FILE NO. 44-10000-10000

SEARCH CODE: 09/6432/66/CCW/004/0002/0032

AUTHOR: Bobreshov, Ye. N.; Darova, P. I.; Ponomarenko, V. A.; Sergoyev, I. V.

ORG: None

TITLE: A computer distribution loop system with binary cells

SOURCE: Mekhanizatsiya i avtomatizatsiya upravleniya, no. 4, 1966, 62

TOPIC TAGS: computer circuit, computer control system, circuit design, flip flop circuit, transistors circuit

ABSTRACT: A computer distribution system with a scaling factor twice higher than the number of cells is described with the help of a circuit diagram. It is mentioned that an application, No. 943983/26-24, for a patent covering this arrangement was presented by P. I. Darova. The system shown in a diagram consists of three flip-flop circuits having a scaling factor equal to 6. The system operates by using transistors for consecutive switching of pulses to the corresponding coincidence output units. The interconnecting operation of three flip-flop circuits are briefly explained. It is expected that the proposed system will find a wide application in designing various distributing, coding and decoding arrangements. Orig. art. has: 1 diagram.

SUB CODE: 09/ SEARCH DATE: None/ ORIG REF: 003

UDC: 621.374.3

Card 1/1

S/095/62/000/001/001/001
I031/I231

AUTHOR: Kuzmak, Ye. M. Doctor of Physical Sciences, Milanchev, V. S., Candidate of Technical Sciences (MINKh and GP imeni Gubkin), Suvorova, V. I., Sergeyev, I., Baryshev, S. P., Engineers (Chel'yabinsk Pipe plant)

TITLE: Investigation of physical properties and weldability of heat-treated 19Г (19G) steel

PERIODICAL: Stroitel'stvo truboprovodov, no. 1, 1962, 8

TEXT: An investigation was made to determine the effect of chemical composition on the physical properties and weldability of heat-treated 19Г (19G) steel.

The chemical composition of the mild and hard heated steel used was: (%)

	C	Mn	Si	Cr	Ni	Cu	S	P
Mild heat	—	0.16	0.70	0.24	0.03	0.10	0.13	0.030
Hard heat	—	0.22	1.01	0.27	0.04	0.11	0.14	0.037

Heat-treatment of 19G steel (heating for 25 minutes at 930°C, then water quenching and tempering at 600°C) increased the tensile strength, the yield point and the impact strength of specimens made from both

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Investigation of...

S,095,62/000/001,001/001
I031,I231

mild and hard heats. Elongation decreased in both cases, however, an especially, drastic decrease being noted in hard steel specimens. The considerable fluctuations of physical properties in both the "as received" and heat-treated steels are due to the different chemical analyses of the steel.

In order to minimize the fluctuation in the physical properties, it is recommended to increase the strength of the mild steel by adjusting the temperature of tempering, raising the strength up to that of hard-heat steel.

Investigation of the physical properties of submerged-arc-welded specimens showed that weldings equal in strength to the pipe base metal may be obtained if heat input of the welding does not exceed the value of 7500 cal/cm. run.

Preliminary heat treatment of 19G steel considerably improves the characteristics of the heat -affected zone in welding seams.

Heat treatment of 19G steel permits reduction of pipe wall thickness by 10 to 20 percent. There are 6 table and 3 figures.



Card 2/2

SERGEYEV, K.

Book about meteorites ("Meteorites of the U.S.S.R."). Reviewed by K. Sergeev). Nauka i zhizn' 20 no. 4:45-46 Ap '53. (MLRA 6:5)
(Meteorites) (Zavaritskii, A.N.) (Kvasha, L.G.)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548110007-4

... 10.1.1.1, P.

"Aircraft with Atomic Engines," a chapter from the book Problems in the Utilization of Atomic Energy, the second revised edition of a collection of articles, published in 1956, Moscow, USSR

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548110007-4"

Name : SERGEYEV, K.

Title : Professor.

Remarks : K. SERGEYEV is the author of an article entitled "Exploration of Outer Space /by means of sputniks/".

Source : M: Stantsii v Kosmose (Stations in Outer Space), a collection of articles, published by the USSR Academy of Sciences, Moskva, 1960, with foreword by Academicians A. N. Nesmeyanov and A. V. Topchiyev, p. 118.

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PLATE I BOOK EXPLOITATION

3rv/1946

Mikhaylov, A. A., ed.

Stantsiya Kosmicheskikh Sistem na Orbe i na Selen'e; abnormal'nye stat'i o kosmicheskikh stantsiyakh; Collection of Articles; Moscow, Izd-vo AN SSSR, 1960, 415 p., 25,000 copies
(Series: Akademika nuk. SSSR. Nauchno-populyarnaya seriya)

Resp. Ed.: A. A. Mikhaylov; Compiler: V. V. Fedorov; Ed. of Publishing House: Ye. M. Klyush; Tech. Ed.: I. D. Novikova.

FUNCTOR. This book is intended both for the space specialist and the average reader interested in space problems.

COVERS: The book contains 73 short articles by various Soviet authors on problems connected with space travel and the launching of artificial earth satellites and space rockets. Some possibilities of future developments are also discussed. The articles were published in the period of 1957-1960. No personalities are mentioned. There are no references.

II. PRELIMINARY RESULTS OF SPACE INVESTIGATION

JAHNICKER, A. M. Historical Frontiers [October 4, 1958] 72
SODCHINOV, A. M. First Scientific Results of the Flight of Soviet Sputniks [March 26, 1958]

Mikhaylova, V. V. Candidate of Physical and Mathematical Sciences. Automatic Laboratory in Space [November 14, 1957] 78
[Soviet Artificial Earth Satellites] [Pravda, October 9, 1957]

Mikhaylova, V. V. Candidate of Physical and Mathematical Sciences. Automatic Laboratory in Space [November 14, 1957] 79
[Soviet Artificial Earth Satellites] [Pravda, October 9, 1957]

Kazakovskii, V. I. Doctor of Physical and Mathematical Sciences. Investigation of the Upper Atmosphere With the Help of the Artificial Earth Satellite [October 10, 1957] 93

Sokol'skii, Yu. V. Candidate of Physical and Mathematical Sciences. Investigation of the Upper Atmosphere With the Help of the Artificial Earth Satellite [October 10, 1957] 93

Batitskii, Yu. V. Candidate of Physical and Mathematical Sciences. On the Way to an Understanding of the Universe [December 4, 1957] 96

Ginzburg, V. L. Corresponding Member of the Academy of Sciences USSR and L. F. Kurnikova, Candidate of Physical and Mathematical Sciences. The Sun, Cosmic Radiation, and Sputnika [November 14, 1957] 112

Sergeev, K. P. Professor. Investigation of Outer Space [December 14, 1957] 118

Third Soviet Artificial Earth Satellite [Pravda, May 18, 1958] 124

Plesovetskiy, Vsevolod Knowledge About the Universe [Pravda, October 5, 1958] 153

Mikhaylov, R. A. Candidate of Physical and Mathematical Sciences. In Outer Space - Our United Sputnik [July 1958] 174

Kuklinikin, B. V. Doctor of Physical and Mathematical Sciences. Length's Look Into Outer Space [March 22, 1956, December 11, 1957] 183

Arest'ev, V. V. Sputnik on a Photo Plate [March 1958] 188

Martynov, N. Ya. Doctor of Physical and Mathematical Sciences. Secret of the Mysteries of the Universe [May 18, 1958] 190

Polezhanov, A. I. Candidate of Physical and Mathematical Sciences. Why Does the Amount of Reflected Light From the Sputniks Change? [September 12, 1958] 191

Polyakov, S. M. High Altitude Laboratories [May 16, 1958] 192

Mashovich, A. G. Doctor of Physical and Mathematical Sciences. Outer Space Laboratory [1959] 193

Pedorenko, Ye. K. Corresponding Member of the Academy of Sciences USSR. Result on Outer Space [1956] 194

Tsiskar, T. G. Candidate of Biological Sciences. Life on the Sputnik [November 14, 1958] 204

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1. SERGEYEV, K.
2. USSR 600
4. Rural Electrification
7. When the lights go on, Mol. kolkh, 20, No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. SERGEYEV, K.

2. Title: USSR
3. Subject: Cultivated plants - forage crops.

4. Author: Zhukov, N.I., L.D., No. 2, 73

5. Date: 1957

6. Summary: We are trying new varieties of forage cucurbits.

7. Detailed Summary: Agricultural shi vystavki Moldove, 1957, no. 4, 55-56; Agricul'turnye i sel'skokhozyaistvennye moldavskie zhurnaly i svedeniiya o sel'skohoz. i zemledel'stve Moldavii, 1957, no. 4, 32-35. Results are cited of the experiments on the cultivation for seedling in Moldavia of forage cucurbits: Spanish, Moldavian, Odesskij 52; pumpkins (the best results were produced by hybrid Dnepropetrovskaya kustovaya-1) and watermelons (Krasivets and Pekinskij). Companion planting of corn and cucurbits are recommended. -- S.N. Mirov

8. References: 4/1

SERGEYEV, K. [Sergeiev, K.]

Attention methane! Nauka i zhyttia li no.12 30-31 D '61.
(MIRA 15:2)

(Methane)
(Mining engineering. Safety measures)

SERGEYEV, K.A.

Knit goods made of chemical fibers. Tekst.prom. 19 no.4:91
Ap '59. (MIRA 12:6)
(Knit goods) (Textile fibers, Synthetic)

SERGEYEV, K.A., gornyy inzh.; ZHANTEMIROV, S.P., gornyy inzh.

Technical servicing of motor trucks in strip mines. Gor.zhur.
no.2;20-22 F '64. (MIRA 17:4)

SERGEYEV, K.F.

Genesis of rocks in the spilite-keratophyre formation of
Paramushir Island (Kurile Islands). Dokl. AN SSSR 152 no.2:
418-421 S '63. (MIRA 16:11)

1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut
Sibirskogo otdeleniya AN SSSR. Predstavлено akademikom
Ye.S. Korzhinskim.

SERGEYEV, K.F.; SERGEYEVA, V.B.

Intrusive rocks of Vernadskii's Range on Paramushir Island
(Kurile Islands). Dokl. AN SSSR 153 no.4:916-919 D '63.
(MIRA 17:1)
1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy insti-
tut Sibirsogo otdeleniya AN SSSR. Predstavлено akademikom
V.S. Sobolevym.

SERGEYEV, K.F.

Some problems of the petrology of the Central instrusive massif
in Paramushir Island. Geol. i geofiz. no.12:82-94 '64.

(MIRA 18:6)

1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut
Sibirskogo otdeleniya AN SSSR, poselok Novo-Aleksandrovsk.

SERGEYEV, K.F.

Basic characteristics of the stratigraphy of Tertiary sediments in the main chain of the Kurile Islands. Dokl. AN SSSR 153 no.5:1154-1157 D '63. (MIRA 17:1)

1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut Sibirs'kogo otdeleniya AN SSSR. Predstavлено akademikom D.I. Shcherbakovym.

KOGAN, A.G.; SERGEYEV, K.G.

House built of vibrated brick panels. Transp. stroi. 10
no. 12:28-30 D '60. (MIRA 13:12)

1. Glavnnyy inzhener uchastka No. 7 tresta Orzhonikidzetransstroy
(for Kogan). 2. Glavnnyy tekhnolog kontory podstobnykh predpriyatiy
(for Sergeyev).
(Zol'sk--Building, Brick)

SERGEYEV, Kh. A.

Radiobroadcasting

Radiobroadcasting from the people's democracies, in the struggle for peace.
Radio, 29, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

SERGEYEV, KH.

PA 236T39

Albania/Electronics - Radiofication

Sep 52

"On the Ascent (Radiofication and Radio Broadcasting in the Albanian People's Republic),"
Kh. Sergeyev

"Radio" No 9, p 16

There were 5 radio stations operating in Albania in the second half of 1951 and a new powerful radio station was put into operation recently in honor of the Second Congress of the Albanian Labor Party. Total power of radio stations has

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increased 18 times in comparison with 1938. About 70 wired radio centers were in operation in the second half of 1951.

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6(4)

SOV/111-59-2-19/27

AUTHOR: Sergeyev, Kh.A.

TITLE: International Organization of Radio Broadcasting (OIR)
(Mezhdunarodnaya organizatsiya radioveshchaniya (OIR))

PERIODICAL: Vestnik svyazi, 1959, Nr 2, pp 30-31 (USSR)

ABSTRACT: The article deals briefly with the background and present status of the OIR, founded in 1946, and in more detail with the commissions within the organization and their activities. In 1948 the western member nations of the OIR left the organization to form the European Union of Radio Broadcasting (UER), leaving only the socialist countries and Finland in the OIR. In 1952 the Chinese People's Republic, the German Democratic Republic, the Mongolian People's Republic, the Korean People's Democratic Republic, and the Democratic Republic of Vietnam joined the OIR, and in 1957 Egypt and Syria left the UER to join the OIR, bringing total membership to 20 nations. A technical commission of the OIR was created at about the same time as the

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International Organization of Radio Broadcasting

organization itself, and held its 14th commission session May, 1958. Study groups have been formed to deal with questions of line broadcasting, acoustics, television, radio wave propagation, the ionosphere, and assignment of frequencies. The technical commission is also occupied with projects relating to the technical development of radio broadcasting, television and sound recording, a number of which are referred to by the author. Line broadcasting is widely used in China, especially in the country (80% of radio installations), and is considered of great importance. A proposition to build a third control center in the Near East by a representative of Radio Egypt, to supplement the 2 already operating in Pekin and China is being implemented. Subjects for further expansion of commission activities are mentioned, and the author refers to an article in "Vestnik svyazi", 1958, Nr 7. A program commission was recently created and is working on improvement of programs of various types. A regional conference of the OIR took place in Peking in April, 1958, and a light

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International Organization of Radio Broadcasting

music festival was held in Praha in October. The program commission organized a cycle of broadcasts called "Science in the Service of Peace"; Soviet Academicians Ioffe and Vinter; Doctor of Technical Sciences, Professor Krasin; Director of the Academy of Chinese Medicine, Lu Chi-chin; English physicist, Professor John Bernal; American scientist Linus Pauling; President of the Academy of Sciences of the RNR, Academician Parkhon; and Director of the Laboratory of the Cairo Museum, Doctor Iskander Zake took part in this cycle, as did broadcasting organizations of many nations. Many countries and international organizations - the International Union of Electrocommunications, and the International Advisory Commission on Radio, to both of which the Soviet Union belongs, as well as UER and UNESCO - maintain contact with the OIR, and broadcasting schedules are regularly sent to many nations in Europe, Asia and America. The program commission will concentrate on such problems as the international competition "Peace and Friendship", joint music broadcasts

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Organisation Internationale de Radiodiffusion

"The Peoples are Singing of Peace and Freedom", "Vital Questions of Dramaturgy", "The Humane Upraising of Children and Youth", "Contact with Radio Listeners", and "Multi-program Radio Broadcasting" in the coming months. A Television commission (Commission on Questions of Organization and Programming for Television) was created in 1957, which discussed exchanges of TV programs, the practice of organization by TV studios of their own production, contact with viewers, and social-political information on television. Plans for the exchange of TV programs are further elaborated on by the author; new radio-relay and cable lines will soon permit Soviet viewers to see programs from Praha, Berlin, Budapest, Moscow, Leningrad, Kiyev and other centers. The OIR has addressed an appeal to UNESCO for a conference of representatives of broadcasting societies and unions to be held in 1959.

Card 4/4

NEVEROV, Yu.L.; SERGEYEV, V.B.; SERGEYEV, K.F.

Igneous rock formations in the Main Chain of the Kurile Islands.
Trudy Sakh. kompl. nauch.-issl. inst. AN SSSR no.15:22-35 '63.
(MIRA 17:10)

SERGEYEV, V.G.; SERGEYEV, K.F.

Gabbro-anorthosite of the intrusive massif of Cape Fersman
on Paramushir Island (Kurile Islands) and some problems of
their genesis. Trudy Sakh. kompl. nauch.-issl. inst. AN SSSR
no.15:36-45 '63. (MIRA 17:10)

SERGEYEV, K. F.

Genesis of the initial magma for the rocks of a gabro-plagio-granit igneous rock formation on Paramushir Island (Kurile Islands). Trudy Sakh. kompl. nauch.-issl. inst. AN SSSR no.15: 46-54 '63. (MIRA 17:10)

SERGEYEV, K.K.

Effect of desoxyribonucleic acid on fecundation processes in
vertebrates [with summary in English]. Biul.eksp.biol. i med. 43
no.3:85-90 Mr '57. (MLRA 10:7)

1. Iz kafedry histologii Chitinskogo meditsinskogo instituta.
Predstavlena deystvitel'nym chlenom AMN SSSR D.N.Nasonovym.
(DESOXYRIBONUCLEIC ACID, eff.
on fertility in vertebrates (Rus))
(FERTILITY, eff. of drugs on
desoxyribonucleic acid in vertebrates (Rus))

SERGEYEV, K.K. (Chita)

Etiology, pathogenesis, and prevention of Urov diseases. Klin.med.
36 no.6:9-15 Je '58 (MIRA 11:7)

1. Iz Urovskoy nauchno-issledovatel'skoy stantsii, Chitinskaya
oblast'.
(ARTHRITIS,
deformans, etiopathogen. & prev (Rus))

SERGEYEV, K K

EXCERPTA MEDICA Sec 2 Vol 12/5 Physiology May 59

1913. RECEPTIVE FUNCTION OF THE CORNEA Russian text) - Sergeev
K. K. Dept. of Histol., Med. Inst., Tchita - FIZIOL. ZH. IM. SECH.

1950, 44/2 (105-109) Illus. 2
Histological evidence on the innervation of the cornea was obtained by means of vital staining of nerves with methylene blue. The cornea was subjected to the action of mechanical and thermal (cold) stimuli of very low intensity. Tactile stimulation was applied by means of a hair of 13μ . diameter (exerting 1 mg. pressure). Cold stimulation was achieved by means of a jet of chloroethylene vapour delivered from a cone with a 1.5 mm. aperture, the temperature at the outlet being +19° C. The cone aperture was placed at a 0.5 mm. distance from the point to be examined. Reactivity of free intraepithelial nerve endings at the centre of

SERGEYEV, K.K. (Irkutsk, ul. 25 Oktyabrya, d.38)

Ammhibian nervous system in the period of metamorphosis. Arkh. anat.
gist. i embr. 36 no.3:13-21 Mr '59. (MIRA 12:7)

1. Kafedra gistologii Chitinskogo meditsinskogo instituta.
(NERVOUS SYSTEM, physiol.
in emphibians during metamorphosis (Rus))

SERGEYEV, K.K., kand.med.nauk

Problem of Urov endemia. Klin.med. 37 no.10:112-119 O '59.
(MIRA 13:2)
1. Iz Urovskoy nauchno-issledovatel'skoy stantsii (direktor - kand.
med.nauk K.K. Sergeyev).
(OSTEOARTHRITIS)

SERGEYEV, K.K. (Aktyubinsk, Kazakhskaya SSR, ul.Pobedy,28, kv.27)

Problem of the morphophysiological relationships of the skin receptors.
Arkh.anat.gist.i embr. 39 no.9:70-77 S '60. (MIRA 14:1)

1. Kafedra gistologii i embriologii (zav. - kand.med.nauk K.K.
Sergeyev) Aktyubinskogo meditsinskogo instituta.
(SKIN—INNERVATION) (RECEPTORS (PHYSIOLOGY))

SERGEYEV, K.K., kand.med.nauk

Morphological and functional regeneration of the neural apparatus
of the human skin after burns. Vest.derm. i ven. 34 no.2:30-34
F '60. (MIRA 13:12)

l. Iz Aktyubinskogo gosudarstvennogo meditsinskogo instituta i
kafedry giatologii.

(BURNS pathol.)
(SKIN innervation)

SERGEYEV, K.K.

Electric thermoesthesia meter. Biul. eksp. biol. i med. 50 no.7:
112-113 Jl '60. (MIRA 14:5)

1. Iz kafedry gistologii (zav. - kandidat meditsinskikh nauk K.K. Sergeyev) Aktyubinskogo meditsinskogo instituta (dir. - dotsent A.B. Dairov). Predstavlena deystvitel'nym chlenom AMN SSSR V.N.Chernigovskim.
(TEMPERATURE SENSE)

SERGEYEV, K.K., kand.med.nauk

Receptor function of the skin in patients with leprosy. Vest.
derm.i ven. no.7:53-60 '61. (MIRA 15:5)

1. Iz Irkutskogo leprozoriya.
(LEPROSY)

SERGEYEV, K.K. (Kazakh kaya SSR, Aktyubinsk, 7, ulitsa Pobedy, 28,
kvartira 27)

Comparative morphology of the cutaneous exteroceptors in mammals.
Arkh. anat., glist. i embr. 45 no.7:89-95 Je '62.

(MIRA 17:4)

1. Kafedra gistologii (zav. - dotsent K.K. Sergeyev) Aktyubinskogo
meditsinskogo instituta.

SERGEYEV, K.K., dotsent

Morphophysiology and physiology of skin receptors. Vest. derm.
i ven. 37 no.7:8-14 Jl '63 (MIRA 16:12)

1. Kafedra gistologii Aktyubinskogo meditsinskogo instituta.

SERGEYEV, K.K. (Kazakhskaya SSR, Aktyubinsk, 7, ul. Nekrasov, 28, kv.27)

Age morphology of human skin exteroceptors. Arkh. anat. gist,
i embr. 45 no.11:38-45 N 103. (MIRA 17:8)

I. Kafedra histologii i embriologiyey (zav. - detsent K.K.
Sergeyev) Aktyubinskogo meditsinskogo instituta, Kazakhstana
SSR.

SERGEYEV, K.K. (Izhevsk)

Rapid method for the silver impregnation of ganglia.
Arkh. pat. 27 no.9:80-81 '65. (MIRA 18:12)

1. Kafedra gistologii meditsinskogo instituta (zav.- prof.
K.K. Sergeyev). Submitted October 19, 1964.

SERGEYEV, K.K.

Complex methodolog/ of silver impregnation with Voelgen's
reaction. Biul. eksp. biol. i med. 59 no.6:117-118 Je '65.
(MIRA 18:6)

1. Kafedra gistologii (zav. - doktor med. nauk K.K. Sergeyev)
Izhevskogo meditsinskogo instituta.

VASIL'YEVA, G.A.; SERGEYEV, K.N.

Cases of hernia of the umbilical cord. Akush. i gin. no.3:80-81
My-Je '54. (MLRA 7:8)

1. Iz rodil'nogo doma Moskovsko-Ryazanskoy zh.d., st. Michurinsk.
(UMBILICUS--HERNIA)

S/146/62/005/005/012/016
D201/D308

AUTHORS: Sergeyev, K. N. and Sinel'nikov, A. Ye.

TITLE: Filtering compensating accelerometer

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 5, no. 5, 1962, 98-106

TEXT: The authors describe the construction and give the theory of an accelerometer which makes it possible to measure, within a given frequency range, accelerations with negligible dynamic distortion and to filter out at the same time the amplitude of the base vibrations in the output signal. The filtering accelerometer consists of two oscillating circuits connected in series, each having a predetermined frequency characteristic. With proper choice of damping coefficients of the oscillating circuits it is possible to obtain the overall required frequency response, both with respect to the measured and non-measured frequencies. The above type of filtering compensating accelerometer makes it possible, as compared with a single-mass one, to extend considerably

Card 1/2

Filtering compensating ...

S/146/62/005/005/012/016
D201/D308

the range of measured frequencies for the same amplitude distortion and to lower appreciably the vibration amplitude in the output signal of the instrument. There are 4 figures.

ASSOCIATIONS: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics); Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnic Institute im. M. I. Kalinin)

SUBMITTED: April 4, 1962

Card 2/2

SERGEYEV, K.N.

Investigation of an acceleration transducer with filtering
properties. Izv. vys. ucheb. zav.; prib. 6 no.5:84-94 '63.
(MIRA 16:11)

1. Leningradskiy institut tochnoy mekhaniki i optiki.

SARYCILN, A., inzh.; SEMENOV, L.

A glorious five years. Crashd. av. 21 no. 12:14 D '64.
(MIRA 18:12)

The application of cellulosic carboxydextrins in soapmaking. L. Sergeev. Zhur. Priklad. Khim. 27, 352 (1954).—Antykov's conclusions (C.A. 47, 12845c) that carboxydextrins can replace fats in soapmaking are challenged.

I. Bencowitz

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548110007-4

SERGEYEV, L., Eng. Col. Cand. Tech. Sci., Docent; MOSTOVENKO, V., Eng. Col.,
Cand. Tech. Sciences, Docent.

"Development of Armored Materiel," from the book Modern Military Technology, 1956,
page, 108.

Translation 1114585

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548110007-4"

SERGEYEV, L.

PA 22T12

USSR/Aeronautics
Navigation, Aerial
Navigation, Celestial

Jul 1947

"A Review of R. V. Kunitskiy's New Book, 'Aviation
Astronomy,'" L. Sergeyev, 1 p

"Vestnik Vozdushnogo Flota" No 7 (341)

A brief review of a new book published in 1947 by
the Military Publishing House of the Ministry of
the Armed Forces of the USSR. It is primarily a
textbook and handbook for navigators, dealing with
some theoretical and practical aspects of aerial
navigation. The critic praises the book for its
clarity and simplicity of text, freedom from com-
plicated mathematical formulae, and its value to
personnel with no special training in astronomical
navigation.

22T12

SERGEYEV L.

PA 44/49T98

USSR/Radio, Training
Radio, Stations

May 49

"In the Central Radio Club," L. Sergeyev, 2 pp

"Radio" No 5

Call letters of Central Radio Club -- UA-3-KAB --
are well known throughout the world; and many
communications have been established with Europe,
the US, and the Far East. In 1948, the radio
station sent 2,950 communications.

44/49T98

SERGEYEV, L.

Radic

We will assist in the popularization of radio in the collective farm village. Radio, 29,
no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, April 1952. Unclassified.

SERGEYEV, L.

Qualified technicians are on their way. Obshchestv. pit.
no. 6:38-39 Je '61. (MIRA 14:9)

1. Zavedyushchiy kabinetom torgovo-tehnologicheskogo
oborudovaniyu Khar'kovskogo tekhnikuma sovetskoy torgovli.
(Food industry--Employees)
(Kharkov--Technical education)

SERGEYEV, I.. (g.Chita)

Experienced soldier shares his knowledge. Voen. znan. 37 no.12;
28 D '61. (MIRA 14:11)
(Snipers)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548110007-4

BABALYAN, B.; IVANOV, G.; GRUZDEV, A.; SERGEYEV, L.; IVANOV, I.

For a model main air route. Grazhd. av. 21 no. 6:20-21 Je '64.
(MIRA 17:8)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548110007-4"

SERGEYEV, L.

According to the principle: He who seeks shall find. Grazhd.
av. 19 no.6:23 Je '62. (MIRA 18:6)

SERGEYEV, I. A.

SERGEYEV, I. A. -- "Verticillium Dahliae Kleb and Their Utilization in the Fight against Withering Cotton in the Ukraine." Acad Sci Georgian SSR, Institute of Plant Protection, Kherson, 1956. (Dissertation for the Degree of Candidate of Biological Sciences)

Knizhnaya Letopis' No 42, October 1956, Moscow

- 36 -

SERGEYEV, L.A., podpolkovnik meditsinskoy sluzhby

Significance of atmospheric ionization in the treatment of hypertension
at the TSkhaltybo Health Resort. Voen.-med. zhur. no.7:80-81 J1 '61.
(MIRA 15:1)
(TSKHALTYBO AIR, IONIZED) (HYPERTENSION)

SERGEYEV, L.A.

Significance of the atmospheric ionization in the complex
climatic factors in the treatment of hypertension patients
at the Tskhaltubo health resort. Sbor. trud. Gos. nauch.-
issl. inst. kur. i fizioter. 26:135-144 '63.
(MIRA 17:5)

1. Iz Tskahaltubskogo sanatoriya M SSSR.

VLASOV, Il'ya Leont'yevich; SERGEYEV, L.A., red.; ZIL'BER, R.B.,
tekhn. red.

[Atomic weapons and protection from them] Iadernoe oruzhie
i zashchita ot nego. Moskva, Izd-vo DOSAAF, 1963. 46 p.
(MIRA 16:7)

(Atomic bomb--Safety measures)

SYKSYAN, L. .

"Some New Physical Methods Applied to the Problem of the Rational Location of Oil
Wells," Journal. Phys., 3, Nos. 4-5, 1940. Mbr., Physics Dept., Azerbaijan Affil.,
Acad. Sci., -1940-.

SERGEYEV L A

3(4)

PHASE I BOOK EXPLOITATION

SOV/2879

Vendrov, Semen Leonidovich, Aleksandr Afanas'yevich Groshev, Nikolay Mikhaylovich Isakov, Leonid Aleksandrovich Sergeyev, Iosif Mikhaylovich Shepshelevich, and Viktor Aleksandrovich Velichko

Sovremennaya tekhnika gidrograficheskikh izyskanii (Modern Techniques in Hydrographic Surveying) Leningrad, Izd-vo "Rechnoy transport," Leningr. otd-niye, 1957. 170 p. 1,500 copies printed.

Ed. (Title page): Ye. V. Bliznyak, Doctor of Technical Sciences, Professor; Reviewer: A. I. Gruzinov; Ed. (Inside book): D. M. Kudritskiy; Tech. Ed.: K.M. Volchok.

PURPOSE: This book is intended for engineering and technical personnel engaged in hydrographic survey work. It may also serve as a textbook for students of hydrographic surveying.

COVERAGE: This book covers the basic principles and techniques of surveying inland waterways. It describes the role played by ultrasonics, radio, lighting

Card 1/4

Modern Techniques in Hydrographic (Cont.)

SOV/2879

Ch. III. Specialized Hydrographic Aerial Photographic Survey	37
7. Basic problems of aerial photography	37
8. Air-borne survey work	40
9. Fundamentals of a hydrographic interpretation of aerial photographs	51
10. Measuring the depth according to sounding tracks	63
Ch. IV. Radiogeodetic Methods for Determining Coordinate Points on Water, Land, and in the Air	68
11. Fundamentals of phase methods in radio measurements	68
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Card 3/4

RASHA, Dmitriy Nikolayevich; SERGEYEV, L.A., otv. za vypusk; PUL'KINA,
Ye.A., tekhn.red.

[Study and calculation of shore transformations in the lake
section of reservoirs] Izuchenie i raschety pereformirovaniia
beregov ozernoi chasti vodokhranilishch. Leningrad, M-vo
technogo flota RSFSR, 1958. 81 p.
(Reservoirs) (Coast changes) (MIRA 12:12)

BERGSEYEV, L. A.

"Intrasonic Depth Finder for Geophysical Purposes."

p. 141 in book Applied Geophysics; Collection of Articles, No. sp, Moscow
Gostoptekhizdat, 1958, 267p.

These articles are concerned with the methodology of interpreting the results of gravimetric, seismic and electrical surveys. Review the collecting properties of rocks on the basis of data obtained from resistometers and the application of charged particle accelerators in well logging.

b
SERGEEV, L. A.
A

"Ultrasonic Echo-Sounding for Geophysical Purposes."
"Ultrasonic Velocities in Methane Saturated Oils and Water for Estimating
Sound Reflectivity of Oil Layer."

paper presented at the 4th All-Union Conf. on Acoustics, Moscow, 26 May - 2 Jun 56.

SERGEYEV, L.A.

Ultrasonic echo sounding for geophysical purposes. Prikl. geofiz.
no.20:141-154 '58. (MIRA 11:11)
(Sonar) (Submarine geology)

MIRCHINK, M.F.; BALLAKH, I.Ya.; SERGEYEV, L.A.; CHURLIN, V.V.; BUKHARTSEV, V.P.; VETO, V.I.; KHACHATRYAN, R.O.; MUKHIN, S.S., red.; RYLINA, Yu.V., tekhn. red.

[Evaluating the possibility of using seismic prospecting in direct search for oil pools] Otsenka vozmozhnosti primeneniia seismicheskoi razvedki dlia priamykh poiskov neftianykh zalezhei. By M.F.Mirchink i dr. Moskva, Izd-vo Akad. nauk SSSR, 1961. 129 p. (MIRA 14:11)

1. Akademiya nauk SSSR. Institut geologii i razrabotki goryuchikh iskopayemykh.
(Seismic prospecting)

S/169/62/000/007/038/149
D228/D507

AUTHORS: Mircink, N. F., Ballakh, I. Ya., Sergeyev, L. A.,
Churlin, V. V., Bukhardtsev, V. P. and Veto, V. I.

TITLE: Direct searches for oil pools by the seismic reflection method

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 23-24,
abstract 7A155 (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, M., Gostoptekhizdat, 1961, 225-229)

TEXT: The authors state the results of research on whether it is possible practically to seek oil and gas pools by direct seismic methods. Theoretical appraisals of the reflecting capacity of the oil-water contact (OWC) showed that the IWC must be a sufficiently clear reflecting boundary. The dependence of the longitudinal wave velocity in water and oil on the methane saturation pressure was investigated (in laboratory conditions), and the velocities in water- or kerosene-impregnated sands under different pressures were

Card 1/2

Direct searches for ...

S/169/62/000/007/038/149
D228/D307

determined. The results obtained confirmed the theoretical calculations. Field observations were made on the Mukhanovskaya structure that has been drilled in detail. The productive parts of the traps were outlined by tracing reflections from the OWC and, less reliably, from the changes in the form of the recording of reflections from geologic boundaries. The statistical processing of seismograms by a special method was applied to distinguish objectively the axes of synphasing that correspond to reflections from the OWC. The possibilities exposed for the use of seismic methods for direct oil and gas searches are undoubtedly of practical interest. [Abstractor's note: Complete translation.]

Card 2/2

SERGEYEV, L.A. (Kaluga)

Improved pipette for taking samples of soil suspensions. Poch-
vovedenie no.1:98-99 Ja '61. (MIRA 14:1)
(Soils--Analysis)

SERGEYEV, L.A.; SERGEYEVICH, V.I.; KHAZNAFEROV, A.I.; BURMISTROVA, V.F.

Difference in compressibility (isothermal and adiabatic) for reservoir oil and methane-saturated water. Prim. ul'traakust. k issl.
(MIRA 14:12)
veshch. no.14:235-240 '61.
(Compressibility) (Petroleum) (Methane)

KOMAROV, S.O., POLSHKOV, M.K., RIABINKIN, L.A., SERGEYEV, L.A., FEDYNSKIY, V.V.

"Progress in geophysical methods of prospecting for oil and gas."

Abstract. The paper outlines the results of the development of geophysical prospecting in the USSR for the past three years. A short description is given of the instruments and technique applied in seismic, electrical, gravity, magnetic and logging surveys both in prospection and exploration of structures and in investigations of direct prospecting for oil and gas fields.

Illustrations are supplemented showing geological results of application of up-to-date methods and instruments of geophysical investigations.

The paper shows great significance of geophysical investigations in studies of geological structure of regions and in prospecting for oil and gas fields in the USSR.

report to be submitted for the 6th World Petroleum Congress, Frankfurt, West Germany, 19-26 June 1963.

SERGEYEV, L. A.; BOYAROYTS, A. A.; CHURLIN, V. V.; SOKOLOV, O. N.

Acoustical pulse logging of a cased well. Geol. nefti i gaza 7
no.1:56-60 Ja '63. (MIRA 16:1)

(Oil well logging, Acoustical)

SERGEYEV, L.A.; SHAPIROVSKIY, N.I. [deceased]; BABAYEV, D.Kh.; GANBAROV, Yu.G.; AKHUNDOV, I.D.; TAGIYEV, Z.B.; TAGIYEV, A.I.; ISMAYLOVA, R.I.; UMANOVA, V.A.; GUSEYNOVA, N.N.; ALIZADE, Kh.A.; CHURLIN, V.V.; TOROPOVA, K.M.

First results of the use of the seismic method for the direct prospecting of oil and gas pools in the sea. Dokl. AN Azerb.
(MIRA 18:1)
SSR 20 no.9:27-31 '64.

1. Institut geologii i razrabotki goryuchkikh iskopayemykh
AN SSSR i Azerbaydzhanskiy nauchno-issledovatel'skiy institut
po dobache nefti.

GORSHKOV, Lev Mikhaylovich; SERGEYEV L.A., red.

[Simplest shelters for protection from weapons of mass destruction] Prosteishie ukrytiia dlia zashchity ot oruzhiia massovogo porazheniya. Moskva, DOSAAF, 1965.
(MIRA 18:5)
47 p.

SERGEYEV, L.A., dotsent

Use of new techniques in water transportation surveys.

Trudy LIVT no.61:44-51 '64.

(MIRA 18:11)

CHURLIN, V.V.; SERGEYEV, L.A.

Using seismic prospecting to isolate the producing section of
an oil reservoir. Geol. nefti i gaza 7 no.11:34-38 1969.
(MIRA 17:8)
1. Institut geologii i razrabotki goryuchikh iskopayemykh
AN SSSR.

TSIRLIN, Aleksandr Danilovich, general-polkovnik inzhenernykh voysk
doktor voyennyykh nauk, prof.; SERGEYEV, L.A., red.

[Soviet engineer troops] Sovetskie inzhenernye voiska. Mo-
skva, DOSAAF, 1965. 58 p. (MIRA 18;12)

ALEKSEYEV, A.P., mayor; SERGEYEV, L.B., inzhener-mayor

With an infrared homing system. Vest. Vozd. Fl. no. 2:92-94 F
(MIRA 14:7)
'61. (Guided missiles)

SABITOV, L.B.

Suppurative processes in the cavity of the sella turcica.
Zdrav. Tadzh. 10 no.3:9-13 '63. (MIRA 17:4)

... Iz Nauchno-issledovatel'skogo Trudovogo Krasnogo Znameni
instituta neurokhirurgii imeni akademika N.N. Burdenko AMN
SSSR (rukoveditel' - prof. L.A. Koreysha).

BULAVOV, Vasiliy Il'ich; RAYSKIY, I.D., retsenzent; SERGEYEV, L.G.,
retsenzent; TSIREKSON, A.L., red.

[Practical study of electrical equipment] Prakticheskie
zaniatiia po elektrooborudovaniu. Moskva, Izd-vo Pi-
shchevaiia promyshlennost', 1964. 135 p. (MIR: 17:8)

PROCESSES AND PROPERTIES INDEX

PROPERTIES AND PROPERTIES INDEX

B-II-4

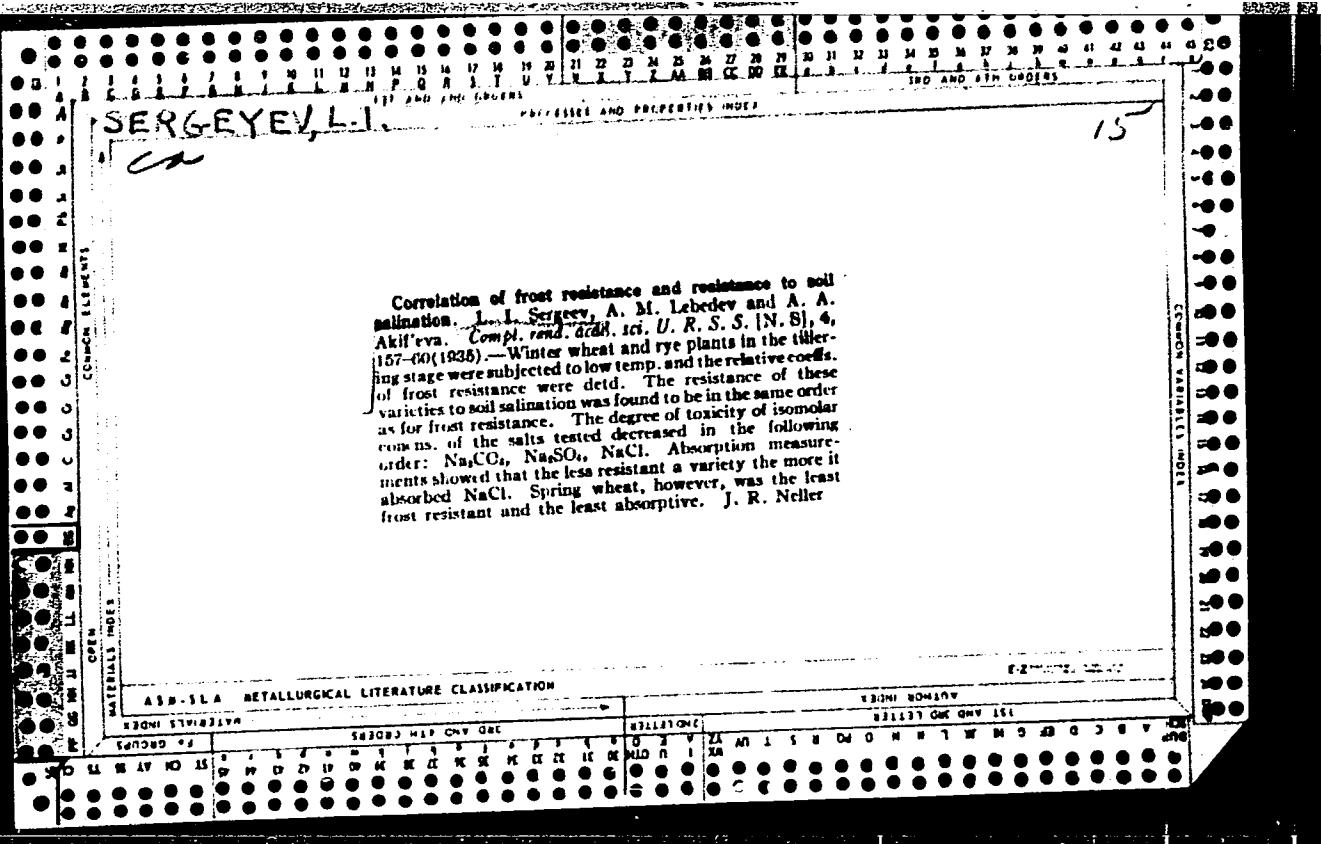
Salt-tolerance of wheat.—J. J. Bannister (Oxford, Engl.). *Ann. Bot.* U.R.B.A., 1935, 1, 153-160.—The elements of variation of hard wheat (cultivars in 0.2M-NaCl) are given, which those of soft varieties and controls are added. A variation in response to increasing salt concentration is seen in any given variety. Glutination in solutions of $\text{Al}_2(\text{SO}_4)_3$ (1-10 μm . of Al per M^2) reduces the dry wt. of the spouts, but greater resistance is shown by the soft varieties. Addition of an equiv. amount of H_2PO_4^- lowers the toxicity of Al. In an acid medium ($\text{pH } 3.6$) the hard varieties give a reduced crop and the soft varieties an increased crop. P. G. M.

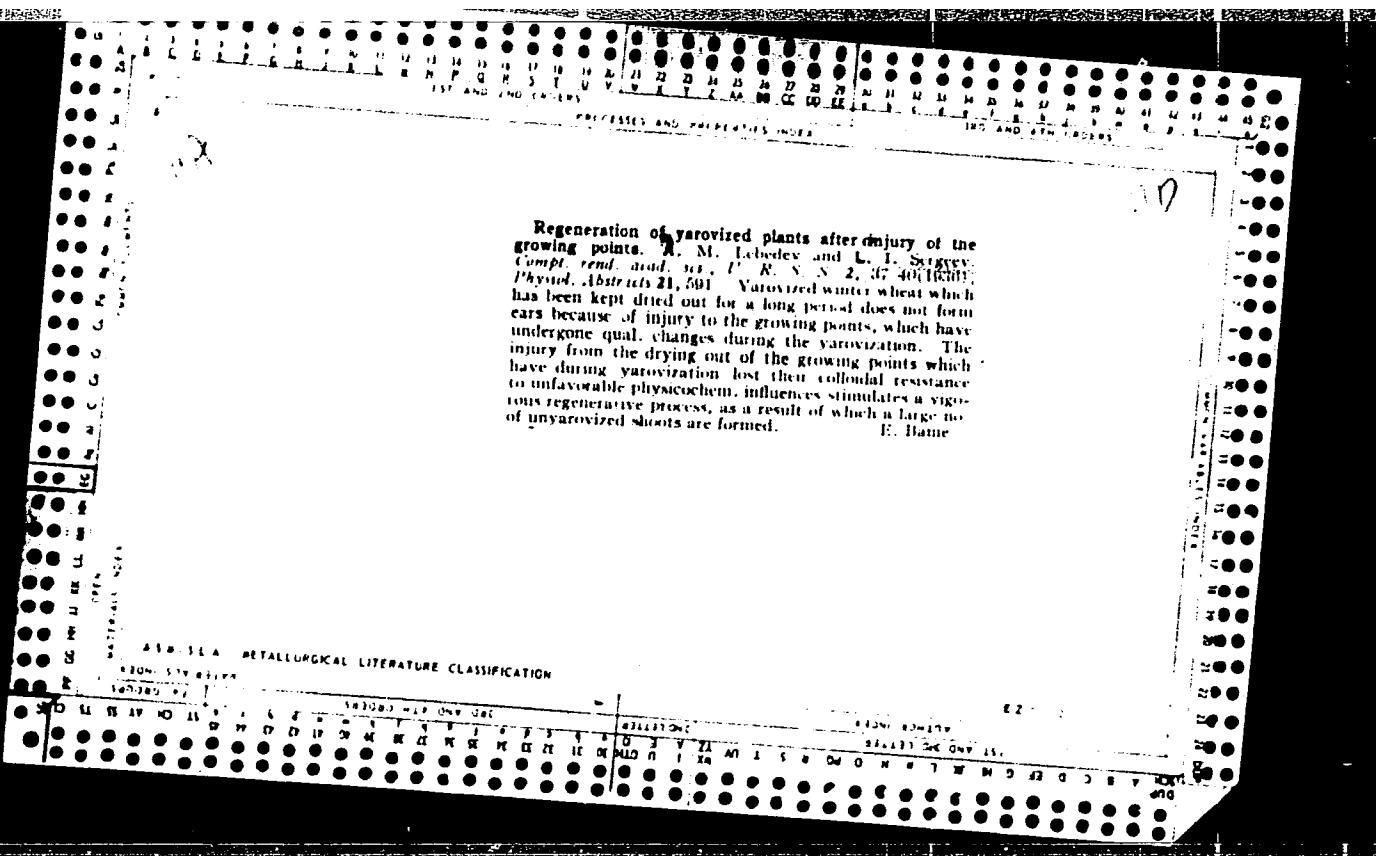
P. G. M.

100-114 METALLURGICAL LITERATURE CLASSIFICATION

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548110007-4"





SERGEY, L. I.

"Steadfastness of the plant--organism from the biological viewpoint." (p. 137)
by Sergeev, L. I.

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologie)
Vol. XI, No. 1, 1939

Effect of ions of aluminum and phosphoric acid on biological properties of plant protoplasm. L. I. Serebrennikova and K. A. Sergeeva. *Compt. rend. acad. sci. U.R.S.S.* 22, 620 (1930); in English; cf. following abstr. The beneficial effects of heavy applications of P fertilizer to soils contg. sol. Al are not caused by pptn. of AlPO₄, but by physiol. antagonism of these ions in the plant. Physiol. measurements showed that Al ion increased and PO₄³⁻ ion decreased the viscosity of the protoplasm of the epidermis of fleshy scales of an anthocyanin-bearing onion. Exosmotic permeability of wheat seedlings 10 days old was least after treatment with 0.005 M Al₂(SO₄)₃, and increased in the order: distilled water, mixt. of Al₂(SO₄)₃ + H₂PO₄, H₂PO₄. The moisture content of the wheat seedlings was Al₂(SO₄)₃ 85.3%; water control 88.5%; and H₂PO₄, 89.0%.

Nelson McKonge, Jr.

Ionic action as a means of controlling resistance and growth of plants. L. I. Sergeev and K. A. Sergeeva. Compt. rend. acad. sci. R. S. S. 22, 630-2 (1959) (in English).—The av. frost resistance of 10-day-old wheat seedlings of 8 varieties was in the order $\text{Al}_2(\text{SO}_4)_3$ pH 3.6 87.5%, $\text{Al}_2(\text{SO}_4)_3$ pH 3.4 85.0%, diatd. water control 55.0%, H_3PO_4 pH 3.5 21.5%, H_3PO_4 pH 3.8 7.5%. This is caused by change in the permeability of the protoplasm (cf. preceding abstr.). The intensity of physiological processes as indicated by germination tests, rate of seedling growth and root development was increased by H_3PO_4 and decreased by $\text{Al}_2(\text{SO}_4)_3$. N. McK. H.

ABSTRACT METALLURGICAL LITERATURE CLASSIFICATION

СЕРГЕЕВ, И. Т.

"Colloid - Chemical processes in protoplasm and physiological steadfastness of plants."
(n. 1/7) by I. T. Serzhev
SO: Advances in Modern Biology ("Naukhi Sovremennoi Biologii") Vol. XIV, No. 1, 1941